

2.4 Inch TFT LCD Touch Screen with 240x320 Resolution 4 White LED Backlight and -20°C to 70°C Operating Temperature

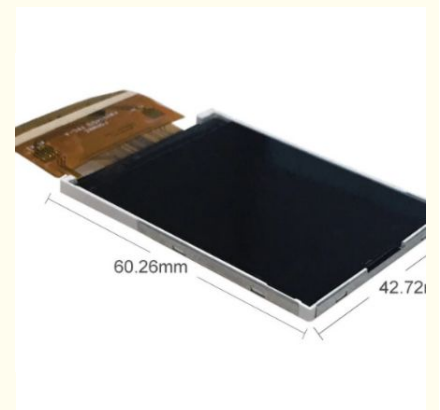
Basic Information

- Place of Origin: China
- Brand Name: BBI
- Certification: ISO90001 RoHS
- Minimum Order Quantity: 1000
- Price: 0.7-7USD
- Packaging Details: CARTON
- Delivery Time: 3-47WEEKS
- Payment Terms: T/T
- Supply Ability: 100000/MONTH



Product Specification

- TFT Mode: TFT, Transmissive
- Storage Temperature: -30°C To 80°C
- Back Light: Four White LED
- Origin: China
- Active Area: 36.72mm×48.96mm
- Display Ic: ST7789V
- Lcm Luminance: 180
- Interface: COF
- Highlight: **240x320 Resolution TFT LCD Touch Screen, 4 White LED Backlight TFT Display Module, -20°C to 70°C Operating Temperature LCD Touch Panel**



| | |
|---------------------|---------------------------------------|
| Outline Size | 42.72mm (W) × 60.26mm (L) × 2.6mm (T) |
| Brightness | 180Cd/m ² |

Technical Details

| Item | Nominal Dimension | Unit |
|-----------------------|--------------------------|------|
| Dot Matrix | 240 x RGB x 320 | Dots |
| Module Size (W×H×T) | 42.72 × 60.26 × 2.6 | mm |
| Dot Pitch (W×H) | 0.153 × 0.153 | mm |
| Interface | COF | - |
| Driving IC Package | COG, I2C | - |
| Operating Temperature | -20 ~ 70 | °C |
| Storage Temperature | -30 ~ 80 | °C |
| IC Drive | ST7789V | - |
| LCD Mode | TN/Normal White | - |
| Backlight Type | 4 White LEDs in Parallel | PCS |

Product Overview

The 2.4-inch TFT liquid crystal touch screen module is a compact display solution with 180Cd/m² brightness, ideal for indoor applications. Its thin profile (under 3mm) and light weight make it suitable for portable devices.

Key Features

Display Technology: TFT (Thin Film Transistor) with independent pixel switches for high-speed refresh and precise color control

Resolution: 240×320 (QVGA) provides excellent clarity for information display and graphical interfaces

Brightness: 180Cd/m² ensures clear visibility in typical indoor lighting conditions

Viewing Angle: Approximately 50° vertical and 70° horizontal without IPS material

Interface Options: Supports SPI, 8080 parallel port for easy microcontroller integration (STM32, ESP32, etc.)

Touch Options: Available in resistive (pressure sensing) or capacitive (multi-touch support) variants

Temperature Range: Operates from -20°C to +70°C with storage up to -30°C to 80°C

Applications

This versatile display module is widely used in portable devices, industrial control systems, medical instruments, and smart home applications including:

- Smart locks and access control systems
- Handheld detectors and measurement devices
- Medical monitoring equipment (blood pressure monitors, etc.)
- Electronic photo frames and information displays



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